AUTODOC CLUB

How to change track rod end on **Mercedes W211** – replacement guide

VIDEO TUTORIAL

Important!

This replacement procedure can be used for:
MERCEDES-BENZ E-Class T-modell (S211) E 220 T CDI, MERCEDES-BENZ E-Class Saloon (W211) E 220 CDI, MERCEDES-BENZ E-Class Saloon (W211) E 320 (211.065), MERCEDES-BENZ E-Class Saloon (W211) E 500 (211.070), MERCEDES-BENZ E-Class Saloon (W211) E 240 (211.061), MERCEDES-BENZ E-Class Saloon (W211) E 220 CDI (211.006), MERCEDES-BENZ E-Class Saloon (W211) E 270 CDI (211.016), MERCEDES-BENZ E-Class T-modell (S211) E 240 T (211.261), MERCEDES-BENZ E-Class T-modell (S211) E 320 T (211.265), MERCEDES-BENZ E-Class Saloon (W211) E 200 CDI (211.004), MERCEDES-BENZ E-Class Saloon (W211) E 55 AMG Kompressor (211.076), MERCEDES-BENZ E-Class Saloon (W211) E 200 Kompressor (211.042), MERCEDES-BENZ E-Class Saloon (W211) E 320 CDI (211.026), MERCEDES-BENZ E-Class T-modell (S211) E 200 T Kompressor (211.242), MERCEDES-BENZ E-Class T-modell (S211) E 220 T CDI (211.206, 211.606), (+ 51)

The steps may slightly vary depending on the car design.

REPLACEMENT: TRACK ROD END – MERCEDES W211.
TOOLS YOU'LL NEED:

- Wire brush
- WD-40 spray
- Brake cleaner
- Copper grease
- Torque wrench
- Combination spanner #14
- Combination spanner #21
- Combination spanner #22
- Drive socket # 21
- Wheel impact socket #17
- Tap wrench
- Vernier caliper
- Ball joint puller
- Crow bar
- Wheel chock

BUY TOOLS

Replacement: track rod end – Mercedes W211. Tip from AUTODOC:

- Replace tie rod ends in pairs.
- The replacement procedure is identical for the right and left tie rod ends.
- All work should be done with the engine stopped.

REPLACEMENT: TRACK ROD END – MERCEDES W211. TAKE THE FOLLOWING STEPS:

1 Secure the wheels with chocks.

2 Loosen the wheel mounting bolts. Use wheel impact socket #17.

3 Raise the front of the car and secure on supports.

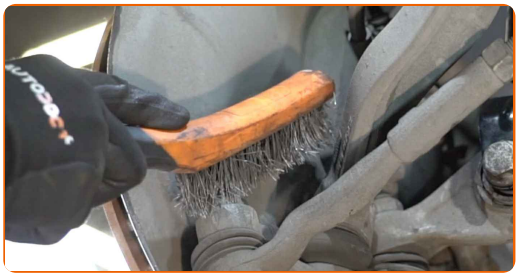
4 Unscrew the wheel bolts.

AUTODOC recommends:

- Warning! To avoid injury, hold the wheel while unscrewing the fastening bolts. Mercedes W211

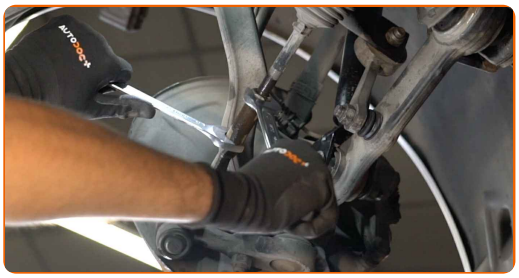
5 Remove the wheel.

6 Clean the fastener connecting the tie rod end to the steering knuckle. Use a wire brush. Use WD-40 spray.



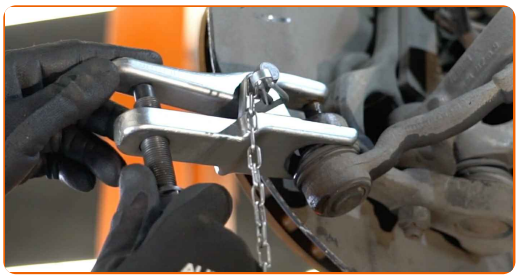
7 When deinstalling, mark or measure the precise position of the ball joint on the track rod, or count the number of turns in order to prevent misalignment afterward. Use a vernier caliper.

8 Loosen the lock nut securing the tie rod end to the tie rod. Use a combination spanner #21 (2 pieces).

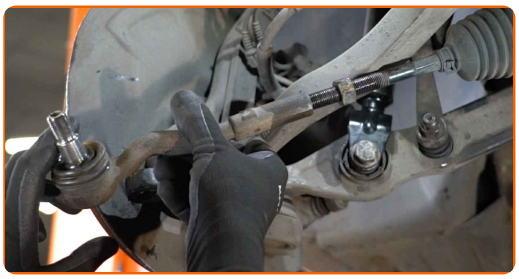


9 Unscrew the end fastening nut to the steering knuckle. Use a drive socket #21. Use a tap wrench.

10 Disconnect the tie rod end from the steering knuckle. Use a ball joint puller. Use a crowbar.



11 Screw the end out of the tie rod.



12 Clean the mounting seats of the tie rod end. Use a wire brush. Use WD-40 spray.

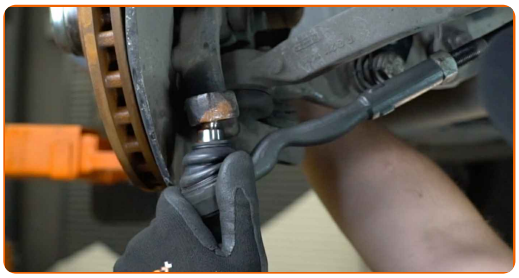
13 Screw on a new tie rod end. Use a combination spanner #14.

Replacement: track rod end – Mercedes W211. Professionals recommend:

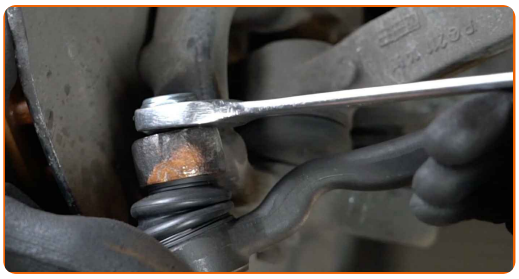
- While installing the steering rod end remember to make the same number of turns or to leave the same length of thread showing as per your measurements.

14 When deinstalling, mark or measure the precise position of the ball joint on the track rod, or count the number of turns in order to prevent misalignment afterward. Use a vernier caliper.

15 Connect the tie rod end to the steering knuckle.

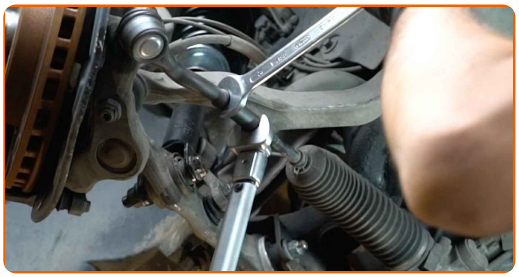


16 Screw on the fastening nut that connects the tie rod end to the steering knuckle. Use a combination spanner #22.



17 Screw on the tie rod end jam nut. Use a combination spanner #21 (2 pieces).

18 Tighten the tie rod end locknut. Use a combination spanner #21 (2 pieces). Use a torque wrench. Tighten it to 60 nm torque.

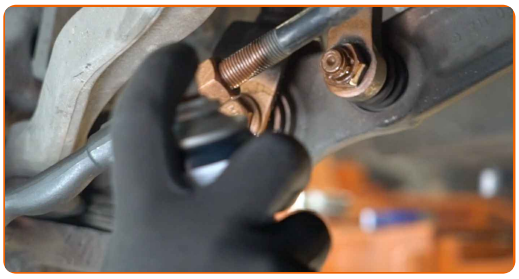


19 Tighten the fastening nut connecting the tie rod end to the steering knuckle. Use a combination spanner #22. Use a torque wrench. Tighten it to 50 Nm torque.+90°

AUTODOC recommends:

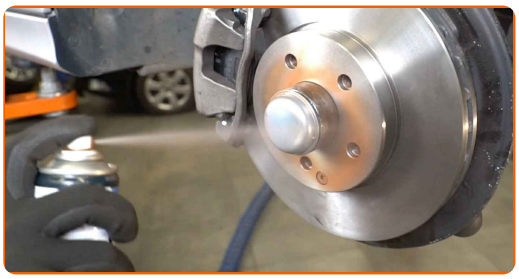
- Important! Be sure to use new fasteners.

20 Treat the fastener connecting the tie rod end to the steering knuckle. Use copper grease.



21 Clean the wheel rim mounting seat. Use a wire brush.

22 Treat the surface where the brake disc contacts the wheel rim. Use copper grease.



23 Clean the brake disk surface. Use a brake cleaner.

AUTODOC recommends:

- Replacement: track rod end – Mercedes W211. After applying the spray, wait a few minutes.

24 Install the wheel.

AUTODOC recommends:

- To avoid injury, hold up the wheel when screwing in the fastening bolts.

25 Screw in the wheel bolts. Use wheel impact socket #17.

26 Lower the car and working in a cross order, tighten the wheel bolts. Use wheel impact socket #17. Use a torque wrench. Tighten it to 130 nm torque.

Replacement: track rod end – Mercedes W211. AUTODOC experts recommend:

- Check and adjust wheel alignment if necessary.

27 Remove the jacks and chocks.

WELL DONE!

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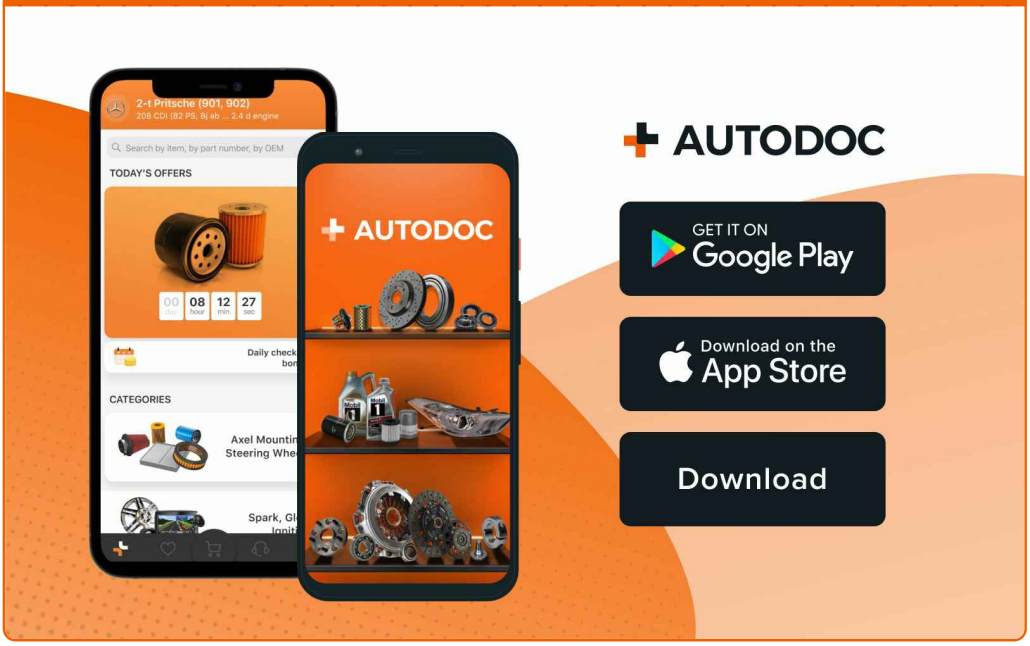

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